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 TI Heat-resistant alkali silicate foams
 IN Katayama, Yoshihisa
 PA Eidai Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 2 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 IC C04B
 CC 58-5 (Cement and Concrete Products)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 50080311	A	19750630	JP 1973-130534	19731119
PRAI JP 1973-130534	A	19731119		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 50080311	IC	C04B
	IPCI	C04B0021-00
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AB In the manufacture of silicate foam from soluble alkali metal silicates, Al compds. or P compds. 5-60 weight%, based on the silicates, are added to raw mixts. to improve the heat resistance of the foams. Thus, a paste containing water glass [1344-09-8] 100, Al(OH)3 [21645-51-2] 20, mineral fiber 10, and diatomite 10 weight parts was molded to a sheet form and foamed by microwave heating at 2450 MHz to obtain a water glass sheet (35 mm thick) having sp. gr. 0.3. When the sheet was heated at 1200°, the longitudinal shrinkage was 10%. In contrast, a sheet made without adding Al(OH)3 melted at 800°.

ST aluminum hydroxide water glass foam

IT Minerals

RL: USES (Uses)
 (fibers, in sodium silicate foam containing aluminum hydroxide for heat resistance)

IT Kieselguhr